

Message Text

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ORIGIN EPA-04

INFO OCT-01 EUR-12 NEA-10 IO-13 ISO-00 FEA-01 ACDA-10
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APPROVED BY EUR/RPM:ESCAMPBELL
EPA:RETRAIN (SUBS)
EPA/WH:VKIMM
EPA/CCMS:FAHARRIS
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-----072224Z 108202 /66

R 071959Z JAN 77
FM SECSTATE WASHDC
TO ALL NATO CAPITALS
USMISSION OECD PARIS
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JERUSALEM FOR KORKY

E.O. 11652: N/A

TAGS: CCMS, SENV

SUBJECT: CCMS SPRING PLENARY - US PILOT STUDY
-- PROPOSAL ON DRINKING WATER

REF: USNATO 6994

PROPOSAL FOR A PILOT STUDY ON DRINKING WATER
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-- SPRING CCMS PLENARY MEETING
-- FEBRUARY 8-9, 1977
-- DUSSELDORF, GERMANY

1. THE US WISHES TO PROPOSE THE FOLLOWING PILOT
STUDY ON DRINKING WATER FOR ADOPTION BY THE NATO COMMITTEE
ON THE CHALLENGES OF MODERN SOCIETY AT ITS SPRING 1977
PLENARY MEETING. THE UNITED STATES, THROUGH THE U-S.
ENVIRONMENTAL PROTECTION AGENCY'S OFFICE OF WATER SUPPLY,
IS PREPARED TO SERVE AS PILOT COUNTRY FOR THIS STUDY.

ALL THE ALLIED NATIONS ARE ENCOURAGED TO PARTICIPATE ACTIVELY IN THIS PILOT STUDY. IT IS HOPED THAT A NUMBER OF ALLIES WILL BE PREPARED TO SERVE AS COPILOTS BY HEADING SOME SPECIFIC PARTS OF THE WORK PROGRAM.

THE PROBLEM OF PROVIDING POTABLE DRINKING WATER THAT IS BACTERIOLOGICALLY AND CHEMICALLY SAFE, AS WELL AS ESTHETICALLY ACCEPTABLE, IS BECOMING CONSIDERABLY MORE COMPLEX, PARTICULARLY IN INDUSTRIALIZED NATIONS. AS THE QUANTITY OF AVAILABLE WATER RESOURCES IS REDUCED BY POPULATION GROWTH, URBANIZATION AND INDUSTRIALIZATION, THE AVAILABILITY OF CLEAN, UNCONTAMINATED WATER FOR HUMAN CONSUMPTION ALSO DECLINES.

PROVIDING SAFE DRINKING WATER IN INDUSTRIALIZED NATIONS PRESENTS CONSIDERABLY DIFFERENT PROBLEMS THAN ARE USUALLY ENCOUNTERED IN DEVELOPING COUNTRIES, WHERE SUPPLY AND MICROBIOLOGICAL QUALITY ARE THE MAJOR CONCERNS.

INDUSTRIALIZED NATIONS HAVE GENERALLY BEEN ABLE TO CONTROL WATERBORNE DISEASE TRANSMISSION, AS EVIDENCED BY THE EXTREMELY LOW INCIDENCES OF TYPHOID AND CHOLERA SINCE THE ADVENT OF WIDESPREAD DISINFECTION PRACTICES. BUT NEW AND POTENTIALLY SERIOUS QUESTIONS ARE RAISED FOR ALL OF US BY THE PROLIFERATION OF INDUSTRIAL CHEMICAL DISCHARGES INTO DRINKING WATER SOURCES, URBAN RUNOFF, AND WATER UNCLASSIFIED

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POLLUTED BY HUMAN WASTE (BOTH TREATED AND UNTREATED), AND FINALLY THE FORMATION OF NEW CHEMICALS IN DRINKING WATER FROM THE INTERACTION OF DISINFECTANT CHEMICALS LIKE CHLORINE, WITH THE NATURAL AND SYNTHETIC CHEMICALS COMMONLY PRESENT IN DRINKING WATER.

THE UNITED STATES IS SUBMITTING THIS INITIATIVE FOR A NEW PILOT STUDY IN THE HOPE OF ACHIEVING A BETTER UNDERSTANDING OF THE DRINKING WATER PROBLEMS THAT WE ALL SHARE AND THEIR SOLUTIONS. THE PILOT PROJECT WILL EVALUATE THE PROBLEMS AND POSSIBLE HAZARDS, AS WELL AS PROVIDE THE MOST UP-TO-DATE INFORMATION ON THE POSSIBLE TECHNOLOGICAL APPROACHES FOR DEALING WITH THOSE PROBLEMS.

THIS PROPOSAL WAS PRESENTED IN PRELIMINARY FORM TO THE FALL 1976 CCMS PLENARY MEETING IN BRUSSELS. SINCE THEN, EXPERTS FROM NINE ALLIED NATIONS MET IN DECEMBER AND PREPARED A DETAILED REVISED OUTLINE OF THE PROJECT WHICH WILL CUT ACROSS THE MAJOR GENERIC SUBJECTS OF WATER SUPPLY TECHNOLOGY AND INCLUDE ANALYSIS AND DETECTION OF POLLUTANTS, INSTRUMENTATION, MICROBIOLOGY, TREATMENT PROCESSES, ENGINEERING, HEALTH SCIENCE, DATA HANDLING AND DISSEMINATION, WATER REUSE AND GROUNDWATER PROBLEMS.

THE PROPOSED PILOT STUDY'S AIM IS TO PRODUCE A COMPREHENSIVE REPORT ON THE STATE-OF-THE-ART IN MATTERS RELATING TO DRINKING WATER IN THE PARTICIPATING NATIONS. THE REPORT WILL INCLUDE EVALUATION OF EXISTING TECHNOLOGY AND PRACTICE FROM THE POINTS OF VIEW OF EFFECTIVENESS, PUBLIC HEALTH PROTECTION, PRACTICALITY, COSTS, GENERAL AVAILABILITY, AND ASSOCIATED BY-PRODUCT HAZARDS. THE PROJECT WILL ALSO EXPLORE EMERGING TECHNOLOGY AND MAKE RECOMMENDATIONS FOR FURTHER TECHNICAL EFFORTS. THE IDENTIFICATION OF ONGOING ACTIVITIES AND DISSEMINATION OF INFORMATION BETWEEN PARTICIPANTS SHOULD HAVE THE ADDITIONAL BENEFIT

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OF ALLOWING NATIONAL PROGRAMS TO FOCUS ON SPECIFIC AREAS OF WATER SUPPLY RESEARCH WITHOUT DUPLICATING WORK BEING DONE ELSEWHERE AND ENCOURAGE NATIONAL ADOPTION OF THE MOST UP-TO-DATE TECHNOLOGIES AND PRACTICES. THE PILOT PROJECT GROUP WILL WORK WITH OTHER INTERNATIONAL ORGANIZATIONS SUCH AS THE CEC, OECD, AND WHO, WHICH ARE INTERESTED IN THE SUBJECT SO THAT OVERLAP WILL BE AVOIDED AND BENEFITS MAXIMIZED.

THE UNITED STATES BELIEVES THAT THIS IS A MOST APPROPRIATE ISSUE TO BE TREATED BY CCMS SINCE THESE PROBLEMS ARE COMMON TO ALL THE ALLIES. IT IS PARTICULARLY TIMELY, AND ALL WILL BE ABLE TO BENEFIT FROM A MORE DETAILED UNDERSTANDING OF HOW EACH OF US HAS DEALT WITH THESE ISSUES AFFECTING OUR WATER SUPPLIES.

IF THE PILOT STUDY IS ADOPTED AT THE SPRING CCMS PLENARY MEETING, ARRANGEMENTS WILL BE MADE FOR THE FIRST WORKING GROUP MEETING TO BE HELD IN APRIL IN BRUSSELS.

THE UNITED STATES WISHES TO THANK THE ALLIES WHO PARTICIPATED IN THE DECEMBER PLANNING MEETING AND ENCOURAGE THOSE WHO WERE NOT ABLE TO PARTICIPATE THEN TO ATTEND THE APRIL MEETING.

2. WORK PROGRAM FOR THE PROPOSED PILOT STUDY IS AS FOLLOWS:

PILOT STUDY ON DRINKING WATER:

S. ANALYTICAL CHEMISTRY AND DATA HANDLING

--A. MONITORING METHODS AND STANDARD TESTING PROCEDURES

-- 1. WHAT IS BEING ANALYZED
-- 2. HOW IT IS BEING ANALYZED

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- 3. MANDATORY OR RECOMMENDED
- 4. FREQUENCIES

- 5. PUBLICATIONS AND COOPERATIVE ACTIVITIES
- (EACH PARTICIPATING COUNTRY SHOULD DISCUSS
- ITS APPROACH TO THIS SUBJECT)

- B. AUTOMATED PROCESS CONTROL AND STREAM MONITORING
- TECHNOLOGY AND METHODS (SENSORS AND TELEMETRY)

- C. DATA HANDLING AND RESOLUTION

- D. USE OF DATA IN DECISION-MAKING

- E. INFORMATION FORMAT DESIGN

II. ADVANCED TREATMENT TECHNOLOGY

- A. TECHNOLOGY DESCRIPTION

 - 1. ACTIVATED CARBON (POWDERED AND GRANULAR, CARBON
 - AND OZONE, AND REACTIVATION)

 - 2. OTHER ADSORPTION MEDIA (SAND AND RESINS)

 - 3. DISINFECTION TREATMENT

 - (A) CHLORINE
 - (B) CHLORAMINES
 - (C) CHLORINE DIOXIDE
 - (D) OZONE
 - (E) SILVER

 - (F) ULTRA VIOLET
 - (G) BROMINE (BROMINE CHLORIDE)
 - (H) IODINE
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- (I) GAMMA RADIATION
- (J) PORTABLE TECHNIQUES

- 4. OTHERS (DESALINATION, ION EXCHANGE, FLOTATION AND
- FLOCCULATION TECHNOLOGY, DENITRIFICATION)

- 5. MEMBRANE TREATMENT (OSMOSIS AND ELECTRODIALYSIS)

- B. EVALUATION OF TECHNOLOGY (FOR EACH TECHNOLOGY LISTED
- IN ITEMS 1-5 THE FOLLOWING INFORMATION SHOULD BE
- SUPPLIED):

- (1) COST DATA (CAPITAL AND OPERATING)

- (2) EFFECTIVENESS OF EACH TECHNIQUE IN REMOVING
- THE ELEMENT TARGETED FOR REMOVAL
- (3) QUALITY OF TREATMENT CHEMICALS
- (4) RESIDUES AND BY-PRODUCT FORMATION

--C. EMERGENCY RESPONSE MEASURES WHEN APPROPRIATE

III. MICROBIOLOGICALS

- A. SAMPLING AND ASSESSMENT (MONITORING FREQUENCIES,
- INDICATORS, ETC.)

- B. TREATMENT MODIFICATION AND VARIATION IN RISKS FROM
- BACTERIA AND VIRUSES

- 1. REDUCTION OF QUANTITY OF DISINFECTANT AND
- RESULTS OF REDUCTION

- 2. BUILD-UP OF ENDOTOXINS FROM ADSORBANT USE

IV. HEALTH EFFECTS

- A. SIGNIFICANCE OF CONTAMINANTS TO HUMAN HEALTH
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- 1. LISTING, IDENTIFICATION AND CONCENTRATION OF
- CONTAMINANTS

- (A) CHEMICALS (ORGANIC AND INORGANIC)
- (B) MICROBIOLOGICAL (BACTERIA, VIRUS, PROTOZOANS)
- (C) PARTICULATES (ASBESTOS, TURBIDITY)

- 2. LOCATION OF CONTAMINANTS

- (A) RAW WATER
- (B) DISTRIBUTION SYSTEMS
- (C) TREATMENT PROCESS

- B. HEALTH EFFECTS EVALUATION OF CONTAMINANTS IN
- DRINKING WATER

- 1. WATERBORNE DISEASE
- 2. TOXICOLOGY (PROTOCOLS FOR ASSESSMENT AND
- CURRENT ACTIVITIES)
- 3. EPIDEMIOLOGY (PROSPECTIVE AND RETROSPECTIVE)
- STUDIES; IDENTIFYING POPULATIONS FOR FUTURE
- STUDIES

- C. PRIORITIZATION OF CONTAMINANTS RELATIVE TO HEALTH
- EFFECTS

--D. INFORMATION FORMAT DESIGN

V. REUSE OF WATER RESOURCES

--A. EPIDEMIOLOGICAL ASPECTS OF REUSE

--B. APPROPRIATE TREATMENT TECHNOLOGY FOR VARIOUS REUSE

-- SITUATIONS

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--C. COMPOSITION OF RECYCLED WATER

VI. GROUND WATER CONSIDERATIONS

--A. PROTECTION

--B. RECHARGE

--C. OTHER

NOTE: FURTHER ELEMENTS TO BE DISCUSSED AT A FUTURE

-- WORKING SESSION IN ADDITION TO THE ABOVE INDEX ARE:

1. ENERGY CONSERVATION

2. INVESTIGATION OF OTHER DATA SOURCES (OECD, CEC,
ISO, WHO, ETC.)

3. POSSIBLE RELEVANCE TO 1977 UN WATER CONFERENCE.

END OF TEXT OF PILOT STUDY PROPOSAL

3. USNATO - PURSUANT TO REFTTEL, PLEASE TRANSMIT
PRECEDING TEXT TO NATO/IS TO BE TRANSLATED AND ISSUED
AS AC-274-D69 FOR DUSSELDORF PLENARY.

4. ALL NATO CAPITALS - PLEASE PASS PRECEDING TEXT TO
NATIONAL CCMS COORDINATORS AND FOLLOWING DRINKING WATER
EXPERTS WHO PARTICIPATED IN PROJECT FORMULATION:

FOR ATHENS: ANGELOS J. PANOGIOTOU, P.E., SANITARY
ENGINEER, MINISTRY OF SOCIAL SERVICES, DEPARTMENT OF
HYGIENE, ENVIRONMENTAL POLLUTION CONTROL, ATHENS
METROPOLITAN AREA PROJECT, 147 PATISSION STREET,
ATHENS.

FOR BONN: M. BAUER, MINISTERIALRAT, MINISTRY OF INTERIOR,
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D5300 BONN 7.

V. HASSELBARTH, DIRECTOR AND PROFESSOR, FEDERAL

HEALTH OFFICE, D-1, BERLIN 33.

FOR BRUSSELS: J. BOUQUIAUX, CHIEF, DEPARTMENT OF ENVIRONMENT AND S. DE MAEYER, BACTERIOLOGY SECTION, DEPARTMENT OF ENVIRONMENT - MINISTRY OF PUBLIC HEALTH, INSTITUTE FOR HYGIENE AND EPIDEMIOLOGY, BRUSSELS.

FOR OTTAWA: GEORGE C. BECKING, ENVIRONMENTAL TOXICOLOGY DIVISION AND PETER TOFT, ENVIRONMENTAL STANDARDS DIVISION; ENVIRONMENTAL HEALTH DIRECTORATE, DEPARTMENT OF HEALTH AND WELFARE.

FOR LONDON: J.R. REID, SENIOR MEDICAL OFFICER, DEPARTMENT OF HEALTH AND SOCIAL SECURITY, ELEPHANT AND CASTLE

T.A. DICK, DIRECTOR, CHEMICAL DIVISION, DEPARTMENT OF ENVIRONMENT, MARSHAM STREET.

FOR LISBON: LUIS J. SILVA, SANITARY ENGINEER, DIRECTORATE GENERAL OF HEALTH SERVICES, COMBRA, PORTUGAL.

FOR OSLO: JAN AUG. MYHRSTAD, NATIONAL INSTITUTE OF PUBLIC HEALTH, DEPARTMENT OF SANITARY ENGINEERING AND ENVIRONMENTAL POLLUTION, OSLO 1.

FOR ROME: APPIO CLAUDIO DI PINTO, ITALIAN RESEARCH CENTER (CNR) VIA RENO 1, ROME.

5. US MISSION EC: PLEASE PASS TEXT TO MR. J. VACCARE, COMMISSION OF EUROPEAN COMMUNITIES.

6. US MISSION OECD: PLEASE PASS TEXT TO MR. DORIN OF ENVIRONMENTAL DIRECTORATE'S WATER MANAGEMENT GROUP.
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<< END OF DOCUMENT >>

Message Attributes

Automatic Decaptioning: X
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Decaption Note:
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Disposition Approved on Date:
Disposition Case Number: n/a
Disposition Comment:
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Disposition Event:
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Enclosure: n/a
Executive Order: N/A
Errors: n/a
Expiration:
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Format: TEL
From: STATE
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